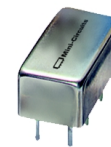


Directional Coupler

PDC-10-2

50Ω

250 to 1000 MHz



CASE STYLE: A01
PRICE: \$34.45 ea. QTY (1-9)

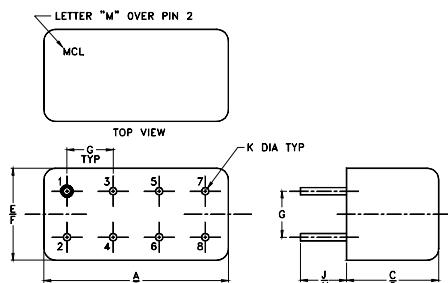
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C

Pin Connections

INPUT	1
OUTPUT	4
COUPLED	3
CASE GROUND	2,5,7,8
NOT USED	6

Outline Drawing



NOTE: BLUE BEAD INDICATES PIN 1. PIN NUMBERS DO NOT APPEAR ON UNIT. FOR REFERENCE ONLY.

Outline Dimensions (inch mm)

A	B	C	D	E	F
.770	.800	.385	.400	.370	.400
19.56	20.32	9.78	10.16	9.40	10.16
G	H	J	K		wt
.200	.20	.14	.031		grams
5.08	5.08	3.56	0.79		5.2

Features

- wideband, 250 to 1000 MHz
- up to 5W power input
- rugged welded construction

Applications

- VHF/UHF
- cellular
- instrumentation
- communication

Directional Coupler Electrical Specifications

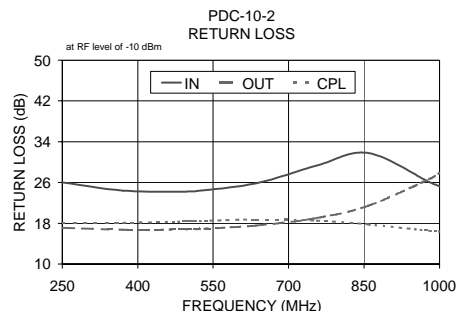
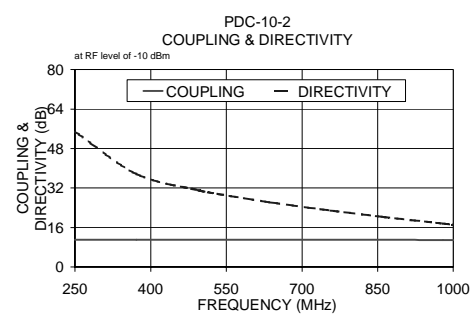
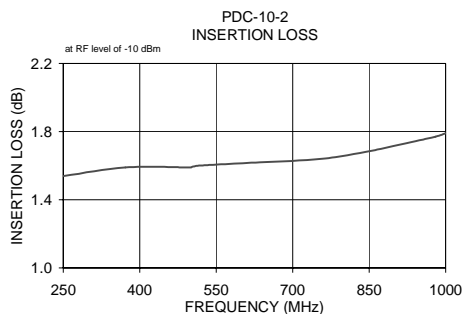
FREQ. RANGE (MHz)	COUPLING (dB)		MAINLINE LOSS ¹ (dB)		DIRECTIVITY (dB)		VSWR (:1)	POWER INPUT, W
	Nom.	Flatness	L Typ.	U Max.	L Typ. Min.	U Typ. Min.		
250-1000	10.5±0.5	±0.6	1.4	1.6	1.6	2.0	1.5	5.0

$$L = F_L - 2F_U \quad U = F_U / 2 - F_L$$

1. Mainline loss includes theoretical power loss at coupled port.

Typical Performance Data

Frequency (MHz)	Insertion Loss (dB) In-Out	Coupling (dB) In-Cpl	Directivity (dB)	Return Loss (dB)		
				In	Out	Cpl
250.00	1.54	11.05	54.80	26.03	17.11	18.01
371.62	1.59	11.08	37.67	24.40	16.72	18.06
493.24	1.59	11.07	31.15	24.21	16.77	18.34
500.00	1.59	11.07	30.80	24.23	16.78	18.35
513.51	1.60	11.07	30.26	24.28	16.81	18.38
635.13	1.62	11.05	26.24	25.84	17.54	18.73
756.75	1.64	11.01	22.89	29.35	19.03	18.50
858.10	1.69	10.98	20.37	31.80	21.42	17.77
979.72	1.77	10.97	17.60	26.08	26.67	16.50
1000.00	1.79	10.97	17.12	25.26	27.86	16.35



electrical schematic

